

Subject: POLAR/TIDE TELECONFERENCE: THURSDAY, August 30 at 3:00 p.m. Eastern time
Date: Thursday, August 30, 2001 8:45 AM
From: Barbara Giles <barbara.giles@gssc.nasa.gov>

POLAR/TIDE TELECONFERENCE: THURSDAY, August 30 at 3:00 p.m. Eastern time

Send an email to barbara.giles@gssc.nasa.gov if you would like to attend by telephone.
The latest meeting announcement will always be posted at: <http://tide.gssc.nasa.gov/studies/telecon/>

STANDING REQUESTS:

Moore (301) 286-5236
NSSTC (256) 961-7620
Pollock (210) 522-3978
Chappell (615) 343-6794
Liemohn (734) 763-6229

AGENDA: August 30 , 2000 MEETING

- 0. Senior Review News
- 1. Operations Update:
- 2. Software update: http://satyr.msfc.nasa.gov/tidetteam/TIDE_software/
 - accounting for biannual and instrument lifetime variations in instrument sensitivity
- 3. IMAGE/LENA/MENA news:
- 4. Meeting coverage/publication news:
- 5. Science Discussion:
- 5a. TIDE proposal plans and future TIDE/PSI studies:
http://tide.gssc.nasa.gov/studies/telecon/Tufig960404_o.pdf
<http://tide.gssc.nasa.gov/studies/telecon/zengfig1b.pdf>

USA Toll Free Number: 866-500-8533
PASSCODE: MOORE
LEADER: Dr Thomas Moore
RESERVATION CONFIRMATION #:8546682

Science discussion schedule:

NEXT: GSFC
NEXT: NSSTC
NEXT: Michigan
NEXT: Vanderbilt
NEXT: SWRI

UPCOMING MEETINGS

Aug 18-31, IAGA/IASPEI meeting @ Hanoi
Sep 2-7, IAG 2001 Scientific Assembly @ Budapest, Hungary
Sep 10-15, ISSS-6 @ Garching, Germany
Sep 17-20, Yohkoh 10th Anniversary Meeting @ Hawaii
Sep 20-22, Hellenic Astronomical Society @ Crete, Greece
Oct 1-5, IGPP Nightside Magnetosphere @ Yellowstone
Oct 1-5, Latin American Conf on Space Geophysics @ Puerto de Tome, Chile
Oct 9-11, ISTP workshop at NRL, Virginia

Oct 8-13, Space Plasma Data School @ French Riviera
Oct 10-12, Layered phenomena in mesopause @ Monterey, CA
Oct 29-Nov 2, Reconnection in Space & Astrophysical Plasmas @ Long Beach, CA
Oct 31 – Nov 2, IMAGE workshop @ Huntsville
Feb 5-8, 2002 Yosemite meeting – IMAGE workshop
Feb 5-10, 2002 COSPAR: INTERBALL and beyond @ SOFIA, Bulgaria
Mar 11-15, 2002 Half a solar cycle with SOHO @ Davos, Switzerland
Mar 25-29, 2002, Substorms ICS-6 @ Seattle
April 22–26, 2002 EGS @ Nice, FRANCE
Jul 9-12, 2002 Western Pacific @ Wellington New Zealand
May 28 – Jun 1, 2002 AGU Spring Meeting @ Washington DC
Jul 15-19, 2002 International Congress on Plasma Physics 2002 @ Sydney, Australia
Dec 6-10, 2002, AGU Fall Meeting @ San Francisco
Apr 7-11, 2003 EGS and AGU Joint Assembly @ Nice, France
December 8–12, 2003 AGU Fall Meeting @ San Francisco
April 26–30, 2004 EGS @ Nice, France
May 17–21, 2004 Joint AGU Spring Meeting and Canadian Geophysical Union @ Montreal
December 13–17, 2004 AGU Fall Meeting @ San Francisco
December 5–8, 2005 AGU Fall Meeting @ San Francisco
December 11–15, 2006 AGU Fall Meeting @ San Francisco
December 10–14, 2007 AGU Fall Meeting @ San Francisco

SOFTWARE PRIORITIES:

Complete mirror of web pages at GSFC
Zoom in feature on summary plots
Finish with Brahim-Su code
Moments in the database, cross table queries
Adopt Huddleston contour code

UNRESOLVED ISSUES WAITING FOR THEORIES, ACTIONS:

Plan to improve calibration of stops data
Lowest energy calibration for sector 4
(http://satyr.msfc.nasa.gov/tideteam/convection_vel_prob/)
Absolute density calibration
(http://satyr.msfc.nasa.gov/tideteam/abs_density/)
Deconvolution of stops data
Shadow in the TIDE data
TOF response (<http://satyr.msfc.nasa.gov/tideteam/foils/>)

SUMMARY OF MEETING: August 16

PARTICIPATING: GSFC, MSFC, UAH, GSFC, VANDERBILT, MICHIGAN

OPERATIONS:

On Tuesday, August 14th, worked started to get PSI ignited. The first attempt with the heater at level two (after a warm-up at level one for about five hours) failed. The heater was then set at level one for 12.5 hours and turned off. Attempts on 8/15 include: a 1 hour bake with the heater at level 2 followed by an ignition attempt with the heater at level 1, a 15 minute bake with the heater at level 3 followed by an ignition attempt with the heater off, and a 15 minute bake with the heater at level 3 followed by an ignition

attempt with the heater at level 1. The heater was turned on to level 1 for 5 hours, off for 9 hours, and on to level 3 for 6 hours. Attempts on 8/16 include: a 1 hour bake with the heater at level 3 followed by an ignition attempt with the heater on level 1, a 15 minute bake with the heater at level 3 followed by an ignition attempt with the heater at level 3, a twenty minute cool down with the heater off, and the heater at level 3 for 10 minutes followed by an ignition attempt with the heater at level 1. The heater was turned off until 07:30 UT 8/17 when it was turned on to level 2. No attempts were run on 8/17. PSI was turned off at 18:13 UT.

In related news: The plasma contactor on Cluster is running at reduced duty cycle. It is known to cause problems with the electric field observations and possibly the wave observations. Forrest Mozer believes the electric field problems are due to the contactor emitting perpendicular to the magnetic field rather than parallel as was done with a similar instrument on Geotail.

SOFTWARE: see http://satyr.msfc.nasa.gov/tideteam/TIDE_software/

Look to http://satyr.msfc.nasa.gov/tideteam/masks/mask_density. See plots of a density calculation over the spin angles corresponding to the sun pulses. This illustrates a steady, but small degradation of the instrument sensitivity. May want to consider raising the MCP voltage in response. There is a biannual variation in the density corresponding to spacecraft orientation (the variation of the inclination of the orbit in the ecliptic frame). This variation is currently not incorporated in the moment analysis code.

IMAGE/LENA/MENA NEWS:

Good bit of activity with IMAGE/MENA with the at March 31- April 1st event. This is a highly unusual event in that geosynchronous observations may include the tail field on the nightside and outside the magnetopause on the dayside.

MEETING COVERAGE/PUBLICATION NEWS: The fall AGU meeting deadline is approaching fast. Vanderbilt plans to submit one or two papers reflecting 1) the statistical studies of polar wind type outflow at 5000 km as an input parameter to modeling; 2) the multispacecraft study being pursued with Geotail as the Polar orbit precesses toward the equator. The ISTEP workshop will be held October 9-11 at the NRL in Virginia. Mike Chandler is organizing a session on the dayside equatorial data.

5. SCIENCE DISCUSSION:

5a. SWRI: http://polar.space.swri.edu/telecon/8-9-01_telecon/

Best graphics can be seen in the Powerpoint presentation that can be downloaded separately. Notice on slide 6, in the stacked plots of PSI high-altitude polar wind observations, the spacecraft is sampling a larger range of altitudes over the polar cap. There is a distinct decrease in the characteristic energy with altitude. These data offer a unique opportunity to document the energy/velocity/altitude profile of the polar wind flows. There is a good correlation between dst and observing more than components (species?) of outflow. The last slide shows a comparison of the energies of the separate polar wind peaks for August 17, 1997. The ratios do not fit the model of two mass species with equal flow velocities.

END OF MESSAGE

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